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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,816	01/25/2007	Sung-Hoon Kim	51876P1072	6972
Blakely, Sokoloff, Taylor & Zafman 12400 Wilshire Boulevard 7th Floor Los Angeles, CA 90025			EXAMINER	
			CHOKSHI, PINKAL R	
			ART UNIT	PAPER NUMBER
_			2425	
			MAIL DATE	DELIVERY MODE
			06/08/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Comments	10/577,816	KIM ET AL.					
Office Action Summary	Examiner	Art Unit					
	PINKAL CHOKSHI	2425					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. lely filed the mailing date of this of (35 U.S.C. § 133).	•				
Status							
1) Responsive to communication(s) filed on 11 De	ecember 2009						
	action is non-final.						
<i>,</i> —	<i>/</i> —						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
dissed in assertance with the prestice and a	in parte quayre, 1000 C.D. 11, 10						
Disposition of Claims							
4)⊠ Claim(s) <u>1-13 and 15-17</u> is/are pending in the a	pplication.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-13 and 15-17</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or							
Application Papers							
9)☐ The specification is objected to by the Examiner							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119			·				
<u>.                                     </u>	priority under 25 LLC C S 110(c)	(d) or (f)					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(a) or (i).					
a) ☐ All b) ☐ Some * c) ☐ None of:	. b b d						
1. ☐ Certified copies of the priority documents							
2. Certified copies of the priority documents	• • • • • • • • • • • • • • • • • • • •	<u> </u>					
<del>_</del> .	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Au							
Attachment(s)							
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P						
Paper No(s)/Mail Date 6) Other:							

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## **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/11/2009 has been entered.

### Response to Arguments

2. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection. See the new rejection below.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. **Claims 1, 5, and 17** are rejected under 35 U.S.C. 103(a) as being unpatentable over US PG Pub 2004/0016002 to Handelman (hereafter referenced as Handelman) in view of US PG Pub 2004/0123332 to Hanson (hereafter referenced as Hanson).

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Regarding **claim 1**, "a data broadcast receiving apparatus capable of supporting an interactive service" reads on the configurable hardware device, such as STB, that reconfigures a circuit configuration (abstract and ¶0070)

disclosed by Handelman and represented in Fig. 1 (element 20).

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As to "apparatus comprising: a demultiplexing component to divide signals transmitted from the outside into signals of a kind" Handelman discloses (¶0079) that the television transmission received at the STB includes television programs as well as data applications. Handelman further discloses (¶0081) that the received television transmissions is decoded using IRD decoder as represented in Fig. 2 (element 100).

As to "a controlling component to control elements of the data broadcast receiving apparatus, the controlling component further to receive and to output contents of the signals divided in the demultiplexing component" Handelman discloses (¶0082, ¶0089, ¶0102) that the processor controls the elements of STB, where it decodes and outputs content as represented in Fig. 2 (element 125).

As to "a download processing component to receive downloadable data of the signals divided in the demultiplexing component" Handelman (¶0079) that the data decoded from the television transmission signals includes computer generated data and application. Handelman further discloses (¶0003, ¶0114, ¶0139) that the circuit reconfiguration is downloaded and upgraded by downloading it from a remote site. As to "determining the kind of the

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downloadable data, and performing an upgrade by downloading the downloadable data to provide an upgraded interactive data broadcasting application" Handelman discloses (¶0093, ¶0125, ¶0127) that the upgrade is provided by reconfiguring the hardware device in STB, where circuit reconfiguration is useful and designed to support an operating system that is used by the appliances. Handelman further discloses (¶0138, ¶0139) that the circuit reconfiguration data is transmitted to the receiver, where it is received and implemented in the hardware device of the STB.

As to "a mobile terminal accessing component to access a mobile communication network based on the downloadable data" Handelman discloses (¶0083) that the modem in the STB is used to communicate with the Internet using telephone network as represented in Fig. 2 (element 140). Handelman further discloses (¶0044, ¶0091) that the STB, using its network connectivity, serves to multiple appliances, such as cellular phone, where when the circuit reconfiguration data is downloaded and installed in STB, it uses this data for the appliances.

As to "in response to a user request for accessing a mobile communication network, executing the upgraded interactive data broadcasting application to provide the interactive service to the user using the mobile terminal accessing component to access the mobile communication network" Handelman discloses (¶0127, ¶0139, ¶0140) that the computer system appliance communicates with the hardware device of STB, where the reconfiguration data

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is received and installed, and using the reconfiguration data, its designed to support an OS of appliance, which is used to support various types of applications. Handelman further discloses (¶0127) that the appliance communicates with the hardware device of STB via the telephone network in order to use the reconfiguration data.

Handelman meets all the limitations of the claim except "a user requests for accessing a mobile communication network." However, Hanson discloses (¶0095) that the user at the remote terminal accesses the transmitted software program by a request for Internet access. Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman's system by submitting a user request to for accessing communication network as taught by Hanson in order to test and verify the upgraded software program.

Regarding **claim 5**, "a method for upgrading software by using downloaded data inputted from the outside in a data broadcast receiving apparatus" reads on the method of configurable hardware device, such as STB, that reconfigures a circuit configuration (abstract and ¶0070) disclosed by Handelman and represented in Fig. 1 (element 20).

As to "method comprising the steps of: a) selecting downloadable data from broadcast stream in the data broadcast receiving apparatus" Handelman discloses (¶0079) that the television transmission received at the STB includes

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television programs as well as data applications. Handelman further discloses (¶0081) that the received television transmissions is decoded using IRD decoder as represented in Fig. 2 (element 100).

As to "b) determining the kind of the downloadable data and c) upgrading the software according to the kind of the downloadable data to provide an upgraded interactive data broadcasting application" Handelman discloses (¶0093, ¶0125, ¶0127) that the upgrade is provided by reconfiguring the hardware device in STB, where circuit reconfiguration is useful and designed to support an operating system that is used by the appliances. Handelman further discloses (¶0138, ¶0139) that the circuit reconfiguration data is transmitted to the receiver, where it is received and implemented in the hardware device of the STB.

As to "d) receiving and processing a request for accessing a mobile communication network from the user" Handelman discloses (¶0083) that the modem in the STB is used to communicate with the Internet using telephone network as represented in Fig. 2 (element 140). Handelman further discloses (¶0044, ¶0091) that the STB, using its network connectivity, serves to multiple appliances, such as cellular phone, where when the circuit reconfiguration data is downloaded and installed in STB, it uses this data for the appliances.

As to "e) executing the upgraded interactive data broadcasting application if the user is authenticated to provide the interactive service to the user using a mobile terminal accessing component to access a mobile communication

network" Handelman discloses (¶0127, ¶0139, ¶0140) that the computer system appliance communicates with the hardware device of STB, where the reconfiguration data is received and installed, and using the reconfiguration data, its designed to support an OS of appliance, which is used to support various types of applications. Handelman further discloses (¶0127) that the appliance communicates with the hardware device of STB via the telephone network in order to use the reconfiguration data. Handelman further discloses (¶0099) that the authentication procedure is performed by the user device.

Handelman meets all the limitations of the claim except "a user requests for accessing a mobile communication network." However, Hanson discloses (¶0095) that the user at the remote terminal accesses the transmitted software program by a request for Internet access. Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman's system by submitting a user request to for accessing communication network as taught by Hanson in order to test and verify the upgraded software program.

Regarding **claim 17**, "a data broadcast receiving apparatus supporting an interactive service" reads on the configurable hardware device, such as STB, that reconfigures a circuit configuration (abstract and ¶0070) disclosed by Handelman and represented in Fig. 1 (element 20).

As to "apparatus comprising: a demultiplexing means for dividing signals from the outside into signals of a kind" Handelman discloses (¶0079) that the television transmission received at the STB includes television programs as well as data applications. Handelman further discloses (¶0081) that the received television transmissions is decoded using IRD decoder as represented in Fig. 2 (element 100).

As to "a controlling means for controlling elements of the data broadcast receiving apparatus, receiving and outputting contents divided in the demultiplexing means" Handelman discloses (¶0082, ¶0089, ¶0102) that the processor controls the elements of STB, where it decodes and outputs content as represented in Fig. 2 (element 125).

As to "a download processing means for receiving downloadable data divided in the demultiplexing means" Handelman (¶0079) that the data decoded from the television transmission signals includes computer generated data and application. Handelman further discloses (¶0003, ¶0114, ¶0139) that the circuit reconfiguration is downloaded and upgraded by downloading it from a remote site. As to "determining the kind of the downloadable data, and performing upgrade by downloading the downloadable data to provide an upgraded interactive data broadcasting application" Handelman discloses (¶0093, ¶0125, ¶0127) that the upgrade is provided by reconfiguring the hardware device in STB, where circuit reconfiguration is useful and designed to support an operating system that is used by the appliances. Handelman further discloses (¶0138,

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¶0139) that the circuit reconfiguration data is transmitted to the receiver, where it is received and implemented in the hardware device of the STB.

As to "a mobile terminal accessing means for accessing a mobile communication network based on the downloadable data" Handelman discloses (¶0083) that the modem in the STB is used to communicate with the Internet using telephone network as represented in Fig. 2 (element 140). Handelman further discloses (¶0044, ¶0091) that the STB, using its network connectivity, serves to multiple appliances, such as cellular phone, where when the circuit reconfiguration data is downloaded and installed in STB, it uses this data for the appliances.

As to "in response to a user request for accessing a mobile communication network, executing the upgraded interactive data tobroadcasting application to provide the interactive service to the user using the mobile terminal accessing component to access the mobile communication network" Handelman discloses (¶0127, ¶0139, ¶0140) that the computer system appliance communicates with the hardware device of STB, where the reconfiguration data is received and installed, and using the reconfiguration data, its designed to support an OS of appliance, which is used to support various types of applications. Handelman further discloses (¶0127) that the appliance communicates with the hardware device of STB via the telephone network in order to use the reconfiguration data.

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Handelman meets all the limitations of the claim except "a user requests for accessing a mobile communication network." However, Hanson discloses (¶0095) that the user at the remote terminal accesses the transmitted software program by a request for Internet access. Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman's system by submitting a user request to for accessing communication network as taught by Hanson in order to test and verify the upgraded software program.

5. Claims 2-4, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Handelman in view of Hanson as applied claims 1 and 5 above, and further in view of US Patent 6,941,341 to Logston et al. (hereafter referenced as Logston).

Regarding **claim 2**, "the data broadcast receiving apparatus wherein the controlling component includes: a middleware processing component to process middleware of the data broadcast receiving apparatus, controlling the download processing component" Handelman discloses (¶0087, ¶0102) that the processor in the STB performs all the functions and controls the receiving of reconfiguration data.

As to "an operating component to operate the data broadcast receiving apparatus and controlling the middleware processing component and the mobile

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terminal accessing component" Handelman discloses (¶0042) that the STB operates the reconfigured hardware device to perform the test.

Combination of Handelman and Hanson meets all the limitations of the claim except "receiving a middleware module and a middleware plug-in software included in the downloadable data from the download processing component." However, Logston discloses (col.4, lines 21-26) that the program distributed to STB includes plurality of types of modules including add-on module. Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman and Hanson's inventions by using plug-in software in download data application as taught by Logston in order to facilitate additional capabilities within client device (col.4, lines 34-36).

Regarding **claim 3**, "the data broadcast receiving apparatus wherein the download processing component determines the kind of the downloadable data by using a downloadable data information descriptor describing data broadcast specification information" Logston discloses (col.29, lines 56-66) that the transport stream comes in receiver includes System Information (SI) table that describes elements for applications and other data. Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman and Hanson's inventions by using system information in the stream as taught by Logston in order to recognize the downloadable data.

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Regarding **claim 4**, "the data broadcast receiving apparatus as recited in claim 3, wherein the downloadable data information descriptor includes at least one among Program Specific Information (PSI) of the Moving Picture Experts Group (MPEG)-2 system, Data Service Table (DST) of the Advanced Television Systems Committee (ATSC) data broadcasting, Application Information Table (AIT) of the DVB-Multimedia Home Platform (MHP), and System Information (SI) of the Digital Multimedia Broadcasting (DMB)" Logston discloses (col.29, lines 56-66) that the transport stream comes in receiver includes System Information (SI) table. Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman and Hanson's inventions by using system information in the stream as taught by Logston in order to describe all of the elements of the stream (col.29, lines 65-66).

Regarding **claim 9**, **c**ombination of Handelman and Hanson meets all the limitations of the claim except "the method wherein the kind of the downloadable data includes a middleware module for accessing a mobile communication terminal and a middleware plug-in." However, Logston discloses (col.4, lines 21-26) that the program distributed to STB includes plurality of types of modules including add-on module. Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman and Hanson's inventions by using plug-in software in download data application as

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taught by Logston in order to facilitate additional capabilities within client device (col.4, lines 34-36).

Regarding **claim 10**, "the method wherein the step c) includes the steps of: c1) upgrading the software by using the middleware module" Handelman discloses (¶0091) that the user device is used to update software programs for connected appliances.

As to "c2) upgrading the software by using the middleware plug-in" Handelman discloses (¶0044, ¶0135) that the plug-in card is used to upgrade software in computer as represented in Fig. 5 (element 600).

6. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Handelman in view of Hanson as applied claim 5 above, and further in view of US Patent 6,487,723 to MacInnis (hereafter referenced as MacInnis).

Regarding **claim 6**, combination of Handelman and Hanson meets all the limitations of the claim except "the method wherein the step a) includes: a1) monitoring the presence of a downloadable data information descriptor in the broadcast stream." However, MacInnis discloses (col.7, lines 44-54) that the terminal receives descriptor table from the network and constantly checks for a newer software version as represented in Fig. 4 9 (element 404).

As to "a2) extracting data identification information from the downloadable data information descriptor" MacInnis discloses (col.4, lines 23-30, 37-40) that

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the data stream ID included in the module is extracted from descriptor table transmitted to receiver. Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman and Hanson's systems by monitoring the presence of data information as taught by MacInnis in order to download the latest/upgraded software program.

7. **Claims 7, 8, 11 and 12** are rejected under 35 U.S.C. 103(a) as being unpatentable over Handelman in view of Hanson, Logston, and MacInnis.

Regarding claim 7, combination of Handelman, Hanson, and MacInnis meets all the limitations of the claim except "the method wherein the downloadable data information descriptor includes at least one among Program Specific Information (PSI) of the Moving Picture Experts Group (MPEG)-2 system, Data Service Table (DST) of the Advanced Television Systems

Committee (ATSC) data broadcasting, Application Information Table (AIT) of the DVB-Multimedia Home Platform (MHP), and System Information (SI) of the Digital Multimedia Broadcasting (DMB)." However, Logston discloses (col.29, lines 56-66) that the transport stream comes in receiver includes System Information (SI) table. Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman, Hanson and MacInnis' inventions by using system information in the stream as taught by Logston in order to describe all of the elements of the stream (col.29, lines 65-66).

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Regarding **claim 8**, "the method wherein the kind of the downloadable data is determined based on the data identification information in the step b)" MacInnis discloses (col.4, lines 25-30) that the terminal receives a list of modules and the location such as data stream ID where this modules can be found to download the upgraded software as represented in Fig. 3A. Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman and Hanson's systems by monitoring the presence of data information as taught by MacInnis in order to download the latest/upgraded software program.

Regarding **claim 11**, "the method wherein the step c) includes the steps of: c3) determining whether the version of the downloaded middleware module is the same as the version of the pre-established middleware version" MacInnis discloses (col.7, lines 44-47) that the comparison is made between the software version number available in the received descriptor and the currently executing software version number in the terminal.

As to "c4) setting up the downloaded middleware module, if the version of the downloaded middleware module is not the same as the version of the preestablished middleware version" MacInnis discloses (col.7, lines 50-54) that if the software version number of the descriptor table is newer than the software version number in the terminal, then the system download the newer version.

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Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman, Hanson, and Logston's systems by monitoring the presence of data information as taught by MacInnis in order to download the latest/upgraded software program.

Regarding **claim 12**, "the method wherein the step c) includes the steps of: c5) suspending an application in execution temporarily and c6) executing the temporarily suspended application after the setup of the middleware module" MacInnis discloses (col.7, lines 53-54) that the system shuts down and turns on the device by rebooting the terminal after newer version is installed. In addition, same motivation is used as rejection to claim 11.

8. **Claim 13** is rejected under 35 U.S.C. 103(a) as being unpatentable over Handelman in view of Hanson and Logston as applied claim 10 above, and further in view of US Patent 6,078,951 to Pashupathy et al. (hereafter referenced as Pashupathy).

Regarding **claim 13**, combination of Handelman, Hanson, and Logston meets all the limitations of the claim except "the method wherein the step c2) includes the steps of: c2-1) checking whether the Multipurpose Internet Mail Extensions (MIME) format of the downloaded middleware plug-in is registered." However, Pashupathy discloses (col.1, lines 24-31; col.4, lines 28-30, 38-41) that the downloaded software program includes MIME format listed in table for STB is registered as represented in Figs. 3 and 4 (elements 320, 420). As to "c2-2) if

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the format of the downloaded middleware plug-in is new, registering the format of the downloaded middleware plug-in and c2-3) setting up the downloaded middleware plug-in" Pashupathy discloses (col.4, lines 50-56) that given a MIME format, client device is updated each time a new program format is received and installed onto the client device. Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelmn, Hanson, and Logston's inventions by using MIME format for downloaded data as taught by Pashupathy so the user does not have to search for the program that supports specific format by regularly updating the table (col.1, lines 36-37).

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9. **Claim 15** is rejected under 35 U.S.C. 103(a) as being unpatentable over Handelman in view of Hanson as applied to claim 5 above, and further in view of US Patent 6,237,039 to Perlman et al (hereafter referenced as Perlman).

Regarding **claim 15**, "the method wherein the step d) includes the steps of: d1) checking whether the downloadable data include a module capable of accessing a mobile terminal" Handelman discloses (¶0139) that once the reconfiguration data is received, the device tested it to determine the correct operation of it.

As to "d3) if the request for accessing the mobile communication network from the user can be executed, accessing the mobile communication network by executing user authentication and a mobile terminal accessing program"

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Handelman further discloses (¶0099) that the authentication procedure is performed by the user device, such as cellular phone.

As to "a user requests for accessing a mobile communication network" Hanson discloses (¶0095) that the user at the remote terminal accesses the transmitted software program by a request for Internet access. In addition, same motivation is used as rejection to claim 5.

Combination of Handelman and Hanson meets all the limitations of the claim except "d2) if the access to the mobile terminal is possible, checking whether the request for accessing to the mobile communication network from the user can be executed." However, Perlman discloses (col.4, lines 49-52, 56-59) that the user requests a web page on the Internet from the web terminal and the system is checking and waiting to see if the user requested page can be executed. Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman and Hanson's inventions by checking to see if user's requested page/program on the Internet can be executed as taught by Perlman in order to verify that user has an access to Internet.

10. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Handelman in view of Hanson and Perlman as applied to claim 15 above, and further in view of MacInnis.

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Regarding claim 16, combination of Handelman and Hanson meets all the limitations of the claim except "the method wherein whether the request for accessing to the mobile communication network from the user can be executed is determined based on module information of the mobile terminal of the user or communication company information." However, MacInnis discloses (col.5, lines 16-19) that the location information associated with module determines the location to download module from the manufacturer's site using Internet.

Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to modify Handelman, Hanson and Perlman's systems by accessing network based on company's information as taught by MacInnis in order to download the latest/upgraded software program.

#### Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - US Patent 7,260,829 to Hendricks discloses apparatus for upgrading programming for existing STB to provide advanced functional capabilities.
  - US PG Pub 2005/0081254 to Carlson discloses a method for configuring a device.
  - US Patent 6,469,742 to Trovato discloses devices with upgrade capability.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PINKAL CHOKSHI whose telephone number is (571)

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270-3317. The examiner can normally be reached on Monday-Friday 8 - 5 pm (Alt.

Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Brian Pendleton can be reached on 571-272-7527. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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/Pinkal Chokshi/

Examiner, Art Unit 2425

/Brian T. Pendleton/

Supervisory Patent Examiner, Art Unit 2425